





ISO8528

This generator set has been designed to meet ISO 8528 regulation.

SZUTEST

This generator set is manufactured in facilities certified to ISO 9001.

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This generator set is available with CE certification.

2000/14/EC

Enclosed product is tested according to EU noise legislation 2000/14/EC

3 Phase Ratings, 60 Hz, PF 0,8

	Standby Rating (ESP)		Prime Rating (PRP)		
Voltage	kVA	kw	kVA	kw	Amp
480/277		126,00		115,00	173,00
380/220		123,00		112,00	213,00
208/120		125,00		113,00	392,00

Standby Rating (ESP):

Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. ESP is in accordance

with ISO 8528. Overload is not allowed.

Prime Rating (PRP):

Applicable for supplying power to varying electrical load for unlimited hours. PRP is in accordance with ISO 8528. 10 % overload capability is available for a period of 1 hour within 12-hour period of operation, in accordance with ISO 3046.



STANDARD SPECIFICATIONS

Heavy duty, water cooled diesel engine Radiator with mechanical fan Protective grille for rotating and hot parts
Electric starter and charge alternator
Starting battery (with lead acid) including rack and cables
Engine coolant heater

Steel base frame and anti-vibration isolators Spare external fuel tank (open set)

Flexible fuel connection hoses
Two bearing, class H alternator
Industrial exhaust silencer and steel bellows supplied separately

Static battery charger

Manual for application and installation



OPTIONAL EQUIPMENTS

ENGINE

- Remote Radiator Cooling
- Electronic governor control
- Fuel-Water Seperator Filter
- Low water level alarm
- Oil heater

ALTERNATOR

- Anti-Condensation Heater
- Over sized alternator
- PMG excitation + AVR
- Single Phase (4 lead)

CONTROL SYSTEM

- Automatic synchronising and power control system (multi gen-set
- Transition synchronization with mains
- Remote annunciator panel
- Remote relay output
- Alarm output relays
- Remote communication with modem
- Earth fault, single set
- Charge Ammeter

OTHER ACCESSORIES

- Automatic or manual fuel filling system
- Manual oil drain pump
- Electrical oil drain pump
- Low and high fuel level alarm
- Residential silencer
- Enclosure: weater protective or sound attenuated
- Duct adapter (on radiator)
- Inlet and outlet motorised louvers
- Inlet and outlet acoustic baffles
- Trailer
- Tool kit for maintenance
- Double wall chassis
- Supplied with oil and coolant 30 °C
- Battery isolating switch
- Battery heater
- Main Fuel Tank
- Automatic transfer switch

TRANSFER SWITCH

- Three Pole Contactor
- Four Pole Contactor
- Motor Switch



• DIESEL ENGINE SPECIFICATIONS

Manufacturer		John Deere			تولید کننده	
Model		6068TF220		مدل		
No. of Cylinders and Build		6 Cylinde	r, In Line		تعداد سیلندرها و نوع آرایش آنها	
Aspiration and Cooling		Turbo Ch	arged and	After Cooled	سیستم تنفس و خنک کاری	
Total Displacement	L				جابه جایی کل	
Bore and Stroke	mm	= -			قطر سیلندر و کورس پیستون	
Rated Speed (rpm)	rpm	ت مجاز 1800			سرعت مجاز	
Governor		الر Mechanical			گاورنر	
Oil Capacity	L	ت روغن			ظرفیت روغن	
Coolant Capacity	L	ت خنک کننده 35,00			ظرفیت خنک کننده	
Intake Air Flow	m³ /min.	بان هوای مصرفی 9,20			جریان هوای مصرفی	
Exhaust Gas Flow	m³ /min.	بان گاز خروجی از اگزوز 26,00			جریان گاز خروجی از اگزوز	
Exhaust Gas Temperature	° C				دمای گاز خروجی از اگزوز	
Start System		12 V d.c.			استارتر	
Fuel Consumption	Load	%100	%75	%50		
	L/h	32,10	24,80	16,50	مصرف سوخت	

• ALTERNATOR SPECIFICATIONS

Make		Stamford	تولید کننده
Model		UCI274E	مدل
Frequency	Hz	60	فرکانس
Power	kw	143,00	توان
Design		Brush, 2 poles	طراحي
Cos Phi		0,80	طراحی کسینوس فی
Phase		3	فاز
Voltage	V	480/277	ولتاژ
Current	А	215,00	جريان
Insulation Class		Н	کلاس عایق بندی
Temperature		Н	دما
Stator		2/3 steps	استاتور
Rotor		Single Bearing System, Flexible Disc	روتور
Excitation System		Electronic (AVR)	سیستم تحریک

DIEMENSIONS AND WEIGHT

Open Type	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
AJD 126-6	1490,00	2349,00	1150,00	1519,00	380,00
Canopy	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
AK 50	1890	3400	1217	1938	380



P 602 - Control System



- 1 A U]b ghUhi g X]gd`Um"
- 2 8]gd`UmgWfc```ViHncb"
- 3 DU[Yf]bZcfa Uh]cbŁ'Vi Hncb"
- 4 7 ca a cb'U'Ufa ']bX]WUhcf"
- 5 GhUhig @98foj"
- 6 CdYfUh]cb`gY`YVM]b[`ViHncbg"

Devices

 $8G9\~za~cXY``*\$\&\$~5i~hc~A~U]bg':~U]i~fY~Wtblfc``a~cXi~Y"\\ 6UhhYfm\W.Uf[~Yf']bdi~h'\%~,~!&*(~j~c`hžci~hdi~h'``&+z̄*~J~)~5~f&(~J~Ecf'%~ž~~J~c`h)~5~fl&J~E~ga~Yf[~Yb\Whghcd~di~g\~Vi~hhcb~UbX~Zi~gYg~Zcf~Wtblfc~`V]f\W]hg"$

Construction and Finish

7 ca dcbYbfg`]bgfU`YX`]b`g\YYfigHYY`YbWcgi fY"D\cgd\UHY`W\Ya]\WI`ždfY!\\&Uhf|b[`cZgHYY``dfcj]XYg`\\&ffcg]cb fYg]gHUbhigi fZUWI"Dc`nYgHYf`\\&a dcg]\Y`dck XYf`\hcd\\&UhfZcfa g`\][\`[`cgg`UbX`YI \hfYa Y`mXi fUV`Y`Z]\b]g\\"@c\\UVY\UbX\\]b[\YX`dUbY`Xccf`dfcj]XYg`YUgmU\\Yg'gc\\C\\UVY\\\

Installation

``7 cblfc``dUbY``]g'a ci bhYX'cb'VUgYZfUa Y'k]h\ 'ghYY``ghUbX"'@cVWhYX'Uhh\Y'f][\hg]XY'cZh\Y'[YbYfUhcf'gYhfK\Yb'mci `cc_'Uhh\Y'; Yb"GYh'Zfca '5`hYfbUhcfL

Generating Set Control Unit

H\Y''8G9'*\$&\$']g'U'gHUbXUfX'WtbHfc`'a cXi `Y'Zcfci f'[YbYfUhcf'gYhg'i d'hc'&\$\$_J 5'UbX'ihi\Ug'VYYb'XYg][bYX'hc gHUfhUbX'ghcd'X]YgY`'UbX'[Ug'[YbYfUhcf'gYhg''H\Y'8G9'*\$&\$'a cXi `Y'\Ug'VYYb'XYg][bYX'hc'a cb]hcf'[YbYfUhcf'gYhg''H\Y'8G9'*\$&\$'a cXi `Y'\Ug'VYYb'XYg][bYX''hc'a cb]hcf'[YbYfUhcf'gYhg'i fYžWtc'UbhHYa dYfUhi fY''fi bb]b['\ci fg'UbX''VUHYfmj c'hg''A cXi `Y a cb]hcfg'h\Y'a U]bg'gi dd`mUbX'gk]hW\cj Yf'hc'h\Y'[YbYfUhcf'k\Yb'h\Y'a U]bg'dck Yf'ZJ]'g"'H\Y'8G9*\$&\$'U'gc]bX]WHYg'cdYfUhjcbU''ghUhi g'UbX'ZJi `h'WtbX]hjcbgž'5i hca UhjWu'`mg\i Hjb['Xck b'h\Y'; Yb"'GYhUbX'[]j]b['Hfi Y'Z]fghi d ZJi `h'WtbX]hjcb'cZ; Yb"'GYhZJ]'i fY"H\Y'@78'X]gd'Um]bX]WHYg'h\Y'ZJi `h'

Standard Specifications

A]WfcdfcWfggcf Wcblfc "YX"

@78 X]gd`Uma U_Yg`]bZcfa Uh]cb`YUgmhc`fYUX"

(!`]bYž*('I '% &'d]l Y`'X]gd`Um'i

5i hca UhjWU``mhfUbgZYfg'VYhk YYb a Ujbg'fi hj`hmh:UbX'[YbYfUhcf'dck Yf"

A Ubi U dfc[fUa a]b[cb ZfcbhdUbY "

I gYf!Zf]YbX`mgYhlid'UbX'Vihhcb``Unncih'

F Ya ch ghufh

9j Ybh`c[[]b[`f) kg\ck]b['XUhY 'UbX'h]a Y"

7 cblfc`g. 'Ghcd# YgYhz'A Ubi U`z5i hcz'HYghz'GhUfhz'Vi hhcbg":5b'UXX]h]cbU`di g\ Vi hhcb'bYl hhc'h\Y'@78'X]gd`Umi]g i gYX'hc'gWfc``'h\fci [\'h\Y'a cXi `Ygfa YhYf]b['X]gd`Umg"



Instruments

9b[]bY gdYYX" C]`dfYggi fY" 7 cc`Ubhhya dyfUhi fy" Fib'ha Y" 6Uhhy fmj c`hg" 7 cb2][i fUV`Y`h]a]b[" ; 9B9F5HCF Jc`hu[Y`f@l@z`@lBŁ" 7 i ffYbhf@%@&!@ Ł" : fYei YbWm A5₽G Jc`hU[Y`f@!@z@!BŁ" : fYei YbWm A U]bg fYUXm A U]bg`YbUV`YX" Yb" GYhfYUXm ; Yb"'GYhYbUV'YX"

Options

: `YI]V'Y gYbgcf WUb'VY WtbHc``YX k]h\ HYa dYfUhi fYž dfYggi fYždYfWbHU[Y fk Ufb]b[#g\ i hXck b#/`YWf]WD`Hf]dk @cWJ`gYHf]b['dUfUa YHYfg'UbX'a cb]hcf]b['Zfca 'D7 hc WtbHfc``a cXi `Y k]h\ I G6 WtbbYWf]cb fa UI '* 'a Hz"

Protection Circuits

K 5FB+B; 7\Uf[Y'ZU]`i fY" 6UhnYfm@ck #][\ 'j c'hU[Y" : U) hc ghcd" I bXYf#cj Yf [YbYfUhcf ZfYei YbWh'i Cj Yf # bXYf gdYYX" @ck 'c] 'dfYggi fY" < | \ \Wcc\UbhhYa dYfUh fY" G<I H'8CK BG : U] hc ghUfh 9a Yf[YbWnghcd" @ck 'c] 'dfYggi fY" <][\ Wcc'UbhHYa dYfUhi fY" Cj Yf # bXYf gdYYX" I bXYf#cj Yf [YbYfUhcf ZfYei YbWh'i I bXYf#cj Yf [YbYfUhcf j c`hU[Y" C]`dfYggi fY`gYbgcf`cdYb" 7 cc`Ubh'hYa dYfUhi fY'gYbgcf'cdYb" 9@97HF = 75@HF = D ; YbYfUhcficj YfiWiffYbhi

Standards

9`YWf]WJ``GUZYhm#9A 7`Wta dUh]V]`]hm6G`9B`*\$-)\$ 9`YWf]WJ``Vi g]bYgg``Yei]da Ybh' 6G`9B`*%\$\$!*!&'9A 7`]a a i b]hmghUbXUfX" 6G`9B`*%\$\$!*!(`9A 7`Ya]gg]cb`ghUbXUfX

Static Battery Charger

 $\label{eq:continuous} $$ \text{OUHHY fmW, Uf[Yf]g'a Ubi ZUMh fYX'k]h, gk]hW,]b[!a cXY'UbX'GA 8 'HYW,bc`c[mUbX'ih\Ug'\][\ YZ]\MYbWh'6UHHY fmW, Uf[Yf a cXY'gfici hdi hJ!=\W,UfUWh'f]gh]\MJg'j Yfm\WcgY' hc gei UfY'UbX'ci hdi hJg') 'Ua dYfz'% \(\frac{7}{2}\) 'Zcf'\&'j c`hUbX'\&+\zeta' J 'Zcf'\&' J 'Z$





- 1 Steel structures
- 2 Emergency stop push button
- Control panel is right side of the set.
- 4 Corrosion-resistant locks and hinges
- 5 Sump drains valves
 - Sound proof foam metarial
- 7 Lifting Points

Introduction

Sound-attenuated and Weather-protective Enclosures Sound-attenuated and weather protective enclosures for generating sets from Abyaran, meet event the sound requirements and provide optimum protection from inclement weather and development by our specialist acoustic engineers. Our modular designed sound insulated canopies provide ease of access for servicing and general maintenance and interchangeable components permitting on-site repair. Enclosures are designed to optimize genset cooling performance, providing you with confidence that genset ratings and ambient capability.

Standard Specifications

Compact footprint, low profile design.

Enclosure, generator set, exhaust system and fuel tank are pre-ssembled, pre-integrated and shipped as one package Body made from steel components treated with polyester powder coating

Fire retardant foam insulation

Easy access to all service points

Exhaust system inside canopy

Large doors on each side

Control panel viewing window in a lockable access door

Emergency stop push button mounted on enclosure exterior

Cooling fan and battery charging alternator fully guarded

Fuel fill and battery can only be reached via lockable access doors.

Lifting points on the top of canopy and base frame

Customer options available to meet your applications needs.

Abyaran makes its generating sets' noise level tests in accordance with directive 2000/14/EC validation of the noise level test has been aproved by the notified body Szutest

Width	mm.	1217
Lenght	mm.	3400
Height	mm.	1938
Fuel Tank Capacity	L	380